MCL103A…MCL103C

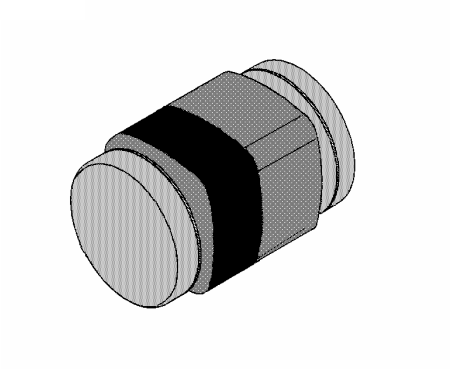
SILICON SCHOTTKY BARRIER DIODES

for general purpose applications

LS-31

Features

- Fits onto SOD 323 / SOT 23 footprints
- Micro Melf package



Absolute Maximum Ratings (T_a = 25 ^{O}C)

		Symbol	Value	Unit
Peak Reverse Voltage	MCL103A	V_{RRM}	40	V
	MCL103B	V_{RRM}	30	V
	MCL103C	V_{RRM}	20	V
Power Dissipation(Infinite Heatsink) T_C = 3/8" from body derates at 4 mW/ ^{O}C to 0 at 125 ^{O}C		P_{tot}	400	mW
Single Cycle Surge 60Hz sinewave		I_{FSM}	15	A
Junction Temperature		T_j	125	^{O}C
Storage Temperature Range		T_S	- 55 to + 175	^{O}C

Characteristics at T_{amb} = 25 °C

		Symbol	Min.	Typ.	Max.	Unit
Leakage Current						
at V_R = 30 V	MCL103A	I_R	-	-	5	μA
at V_R = 20 V	MCL103B	I_R	-	-	5	μA
at V_R = 10 V	MCL103C	I_R	-	-	5	μA
Forward Voltage Drop						
at I_F = 20 mA		V_F	-	-	0.37	V
at I_F = 200 mA		V_F	-	-	0.6	V
Junction Capacitance						
at V_R = 0 V, f = 1 MH_Z		C_{tot}	-	50	-	pF
Reverse Recovery Time						
at I_F = I_R = 5 mA to 200mA, recover to 0.1 I_R		t_{rr}	-	10	-	ns

Dimensions in mm